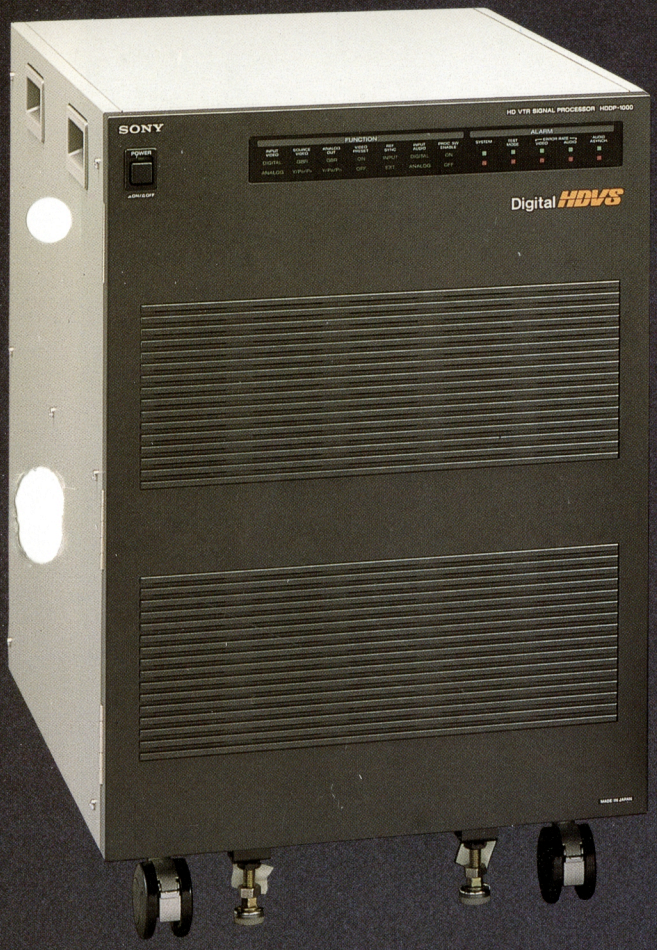
SONY

High Definition Digital VTR System



HDVS

High Definition Video System

Sony, the first name in digital technology, announces the HDD-1000 Digital VTR and the HDDP-1000 VTR Signal Processor, the first digital VTR system in the high definition world. In the HDVS (High Definition Video System) digital VTR system, Sony, the long-time leader in high definition video, has succeeded in producing one of the most sophisticated recording systems in the world. The HDD-1000's transport, control panel, system control, and servos are based on Sony's user-friendly and well-accepted BVH-3000 series of 1-inch type-C format VTRs. The HDDP-1000 has the same configuration as Sony's DVPC-1000 Digital VTR Signal Processor, which will make this system highly reliable and easy to service.
Once again, Sony has taken technology a step beyond in bringing high definition video into the digital age.

Digital VTR System

HDD-1000 Digital VTR

The transport, control panel, system control and servos of the HDD-1000 Digital VTR are based on Sony's well-accepted and user-friendly BVH-3000. Incorporating the latest technology, including eight channels of digital audio, the HDD-1000 offers the multi-generation capability and transparent recording expected from digital equipment with the reliability and durability expected from Sony.

Features

- Incorporates many of the features of the BVH-3000 including compact size, lightweight, ease of tape threading, computerized servo control, and front panel operation.
- With wide band Y P_B P_R recording, a high quality picture is assured.
- Wide band (30MHz) recording system.
- Front panel controls for basic simple editing.
- One hour recording time with 11.75-inch reel.
- Time code editing possible when interfaced with the BVE-900 Automatic Editing Control Unit or the BVE-9000 Editing System.
- Built-in time code generator/reader.
- 9-pin Remote Interface
- Special playback modes
  —JOG: still to ±1/4 times normal
  —SHUTTLE: still to ±8 times normal
- Eight channels of digital audio

Specifications

DIGITAL VTR (HDD-1000)

GENERAL	
Power requirements	AC 100 - 120/220 - 240V ± 10%, 50/60Hz
Power consumption	550W
Operating temperature	5°C to 35°C (41°F to 95°F)
Storage temperature	– 20°C to 60°C (– 4°F to 140°F)
Humidity	10% to 85% (non-condensing)
Weight	Approx. 67 kg (147 lb 11 oz)
Dimensions	Approx. 480(W) × 680(H) × 572(D)mm (19 × 26 7/8 × 22 5/8")
Tracks	Video tracks: 8 T/C tracks: 1 Audio tracks: 8 Cue tracks: 1 CTL tracks: 1
Tape speed	80.5cm/sec
Writing speed (Relative speed)	51.5m/sec
Recording time	63 min. with 11.75-inch reel
Fast forward/Reverse speed	approx. 5 minutes
Recommended tapes	Sony's 1-inch High Density Tape or equivalent
Reel size	NAB Standard, 6.5 - 11.75 inch reel
Input/Output	
AUDIO	
LINE INPUT	
CUE	XLR 3-pin
TIME CODE	XLR 3-pin
LINE OUTPUT	
CUE	XLR 3-pin
TIME CODE	XLR 3-pin
MONITOR OUT	
R/L	XLR 3-pin
HEADPHONES	Stereo
TO PROCESSOR	
CN-1	D-sub 50-pin
VIDEO	
TO PROCESSOR	
CN-2	D-sub 50-pin
CN-3	D-sub 50-pin
REMOTE	
SERIAL REMOTE	
REMOTE-1	for BVH-1000/1100 through BKH-2016 D-sub 15-pin
REMOTE-2A IN	9 pin remote
REMOTE-2A OUT	9 pin remote
REMOTE-2B IN/OUT	9 pin remote
AUX	for external WFM select, D-sub 9-pin
PARALLEL REMOTE	
REMOTE-3	D-sub 50-pin
VIDEO (with HDDP-1000)	
Signal standard	SMPTE 240M
Signal system	Y P_B P_R
Signal-to-noise ratio	Better than 56 dB (full band, unweighted)
Quantization	8 bits
Sampling rate	74.25MHz
Bandwidth	DC 30MHz 0 - 1.5dB (luminance) DC 15MHz 0 - 1.5dB (chrominance)
K factor	Less than 1%, 2T pulse
Phase error of each component channel	Less than 3.5 nsec.
AUDIO	
Frequency response	20Hz to 20kHz +0 −0.5dB
Crosstalk (at 1kHz)	Less than – 80dB (between any two channels)

HDD-1000 Control Panel

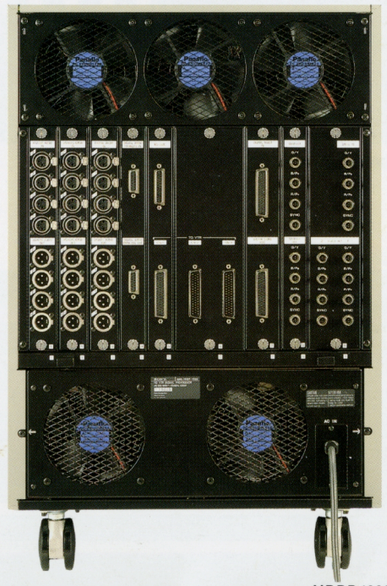
HDD-1000 Connection Panel

HDDP-1000 VTR Signal Processor

With a configuration based on Sony's DVPC-1000 Digital VTR Signal Processor, the HDDP-1000 VTR Signal Processor is highly reliable and easy to service.

Input/Output	
VIDEO	
VIDEO IN	G/Y, B/PB, R/PR (BNC, 2 inputs)
	EXT SYNC (BNC, 1 input)
VIDEO OUT	G/Y, B/PB, R/PR (BNC, 2 outputs)
	EXT SYNC (BNC, 2 outputs)
MONITOR OUT	G/Y, B/PB, R/PR (BNC, 1 output)
	EXT SYNC (BNC, 1 output)
WFM OUT	G/Y, B/PB, R/PR (BNC, 1 output)
	EXT SYNC (BNC, 1 output)
TO VTR	
CN-2	D-sub 50-pin
CN-3	D-sub 50-pin
DIGITAL VIDEO IN/OUT	
DIGITAL VIDEO IN	D-sub 50-pin
DIGITAL VIDEO OUT	D-sub 50-pin
AUDIO	
ANALOG AUDIO IN	XLR 3-pin (8 channels)
ANALOG AUDIO OUT	XLR 3-pin (8 channels)
DIGITAL AUDIO IN	XLR 3-pin (4 channels)
DIGITAL AUDIO OUT	XLR 3-pin (4 channels)
DIGITAL AUDIO PARALLEL IN	D-sub 15-pin
DIGITAL AUDIO PARALLEL OUT	D-sub 15-pin
TO VTR	
CN-1	D-sub 50-pin
REMOTE	RS-232C

HDDP-1000 Connection Panel



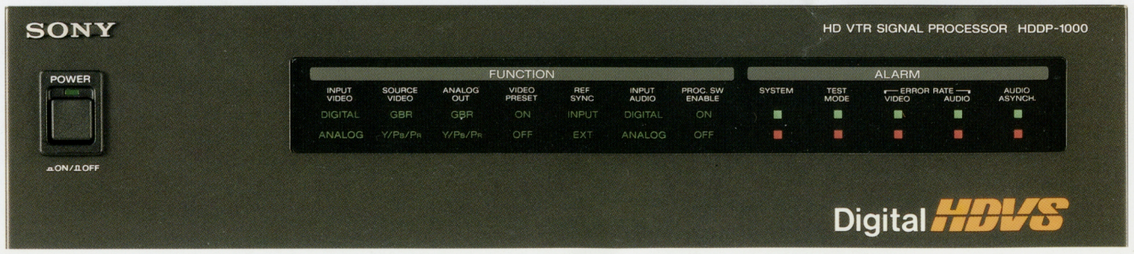
Features

- Compact
- Easy to service
- 8-bit digital processing system.
- Signal to noise ratio of 56dB

VTR SIGNAL PROCESSOR (HDDP-1000)

GENERAL	
Power requirements	AC 100 - 120/220 - 240V ± 10%, 50/60Hz
Power consumption	1200W
Operating temperature	5°C to 35°C (41°F to 95°F)
Storage temperature	– 20°C to 60°C (– 4°F to 140°F)
Humidity	10% to 85% (non-condensing)
Weight	Approx. 100 kg (220 lb)
Dimensions	Approx. 482(W) × 650(H) × 630(D)mm (19 × 25 5/8 × 24 7/8")

HDDP-1000 Front Panel



HD-1D Series High Quality Video Tape

This tape was especially designed to meet the demands of HDVS. It is available in 33, 48, and 63 minute recording times.

HD TAPES (HD-1D SERIES)

	HD-1D-33A	HD-1D-48A	HD-1D-63A
Reel size (inch)	10.5	10.5	11.75
Length m (feet)	1,620 (5,344)	2,330 (7,689)	3,080 (10,164)
Playing time* (min.)	33	48	63
Weight** kg	3.0 (6 lb 10 oz)	3.8 (8 lb 6 oz)	5.0 (11 lb)
Case type	Shipper case	Shipper case	Shipper case

*Tape speed = 80.5cm/sec.
**With case

Design and specifications subject to change without notice.
*HDVS is a registered trademark of Sony Corporation.

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